

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: April 15, 2004, 16:36:47 ; Search time 0.001 Seconds

(without alignments)  
34.620 Million cell updates/sec

Title: us-09-954-556-3

Perfect score: 30

Sequence: 1 cagcacaagaagcagacttcagcagcca 30

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 0.5

Searched: 44 seqs, 577 residues

Total number of hits satisfying chosen parameters: 88

Minimum DB seq length: 8

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 44 summaries

Database : rn1.seq \*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	14.4	48.0	17	1	US-08-541-950B-17
2	14.4	48.0	17	1	US-08-541-950B-20
3	14.4	48.0	17	1	US-08-541-950B-17
4	14.4	48.0	17	1	US-08-541-950B-20
5	14.4	48.0	17	1	US-08-541-950B-20
6	14.4	48.0	17	1	US-08-541-950B-23
7	13.8	46.0	17	1	US-09-325-601-1
8	13.8	46.0	17	1	US-08-541-950B-13
9	13.8	46.0	17	1	US-09-325-601-3
10	13.8	46.0	17	1	US-08-541-950B-18
11	12.8	42.7	17	1	US-08-541-950B-19
12	12.8	42.7	17	1	US-08-541-950B-21
13	12.8	42.7	17	1	US-08-541-950B-22
14	12.8	42.7	17	1	US-08-541-950B-18
15	12.8	42.7	17	1	US-09-083-756A-19
16	12.8	42.7	17	1	US-09-083-756A-21
17	12.8	42.7	17	1	US-09-083-756A-22
18	12.8	42.7	17	1	US-09-083-756A-23
19	11.8	39.3	15	1	US-08-363-240A-47
20	11.4	36.0	15	1	US-08-050-073-65
21	9.4	31.3	12	1	US-09-281-418-65
22	9.4	31.3	12	1	US-09-281-418-65
23	8.4	28.0	10	1	US-09-263-790-35
24	8.4	28.0	10	1	US-09-721-777-18
25	8.4	28.0	10	1	US-08-545-255A-20
26	8.4	28.0	10	1	US-08-719-337-26
27	8.4	28.0	10	1	US-08-878-835A-12
28	8.4	28.0	10	1	US-09-508-753B-28
29	8.4	28.0	10	1	US-09-508-753B-28
30	8.4	28.0	10	1	US-08-894-454-110
31	8.4	28.0	10	1	US-09-758-073-6
32	8.4	28.0	10	1	US-08-173-489C-342
33	8.4	28.0	11	1	US-08-173-489C-342

C 34	8.4	28.0	11	1	US-09-862-847-15	Sequence 15, Appl
C 35	8	26.7	8	1	US-08-859-954-95	Sequence 95, Appl
C 36	8	26.7	8	1	US-09-041-675-19	Sequence 19, Appl
C 37	8	26.7	8	1	US-09-041-675-24	Sequence 24, Appl
C 38	8	26.7	9	1	US-09-989-789-455	Sequence 455, App
C 39	8	26.7	9	1	US-09-989-789-456	Sequence 456, App
C 40	8	26.7	10	1	US-08-060-952C-9	Sequence 9, Appl
C 41	8	26.7	10	1	US-08-997-897-4	Sequence 4, Appl
C 42	8	26.7	10	1	US-09-156-836B-4	Sequence 4, Appl
C 43	8	26.7	10	1	US-08-464-011B-9	Sequence 9, Appl
C 44	8	26.7	10	1	US-09-336-946B-15	Sequence 15, Appl

## ALIGNMENTS

```
RESULT 1
US-08-541-950B-17
; Sequence 17, Application US/08541950B
; Patent No. 5821046
; GENERAL INFORMATION:
; APPLICANT: Karm J, Galt MJ, Heaphy S, Dingwall C
; TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Witcoff, Ltd.
; STREET: One Financial Center, 45th Floor
; CITY: Boston
; STATE: MA
; ZIP: 02111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Wordperfect 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/541,950B
; FILING DATE: 10/10/95
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/960,370
; FILING DATE: 03/19/93
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams, Ph.D., Kathleen M.
; REGISTRATION NUMBER: 34,380
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 345-9100
; TELEFAX: (617) 345-9111
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 bases
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: synthetic RNA
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 8
; OTHER INFORMATION: N is 2'-deoxythymidine
; US-08-541-950B-17

Query Match 48.0%; Score 14.4; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 2.9;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Cy 1490 AGCCAGACTTCAGCAGC 1506
Db 1 AGCCAGANTUGAGCAGC 17

RESULT 2
US-08-541-950B-20
; Sequence 20, Application US/08541950B
```

107	8.4	28.0	10	1	AAI34426	Yeast NORF gene SA
C 108	8.4	28.0	10	1	AAI344234	Yeast NORF gene SA
109	8.4	28.0	10	1	AAI519669	Primer-extension o
110	8.4	28.0	10	1	ABU52200	Human PER1 prefer
C 111	8.4	28.0	10	1	ABK81399	SCY21 gene primer
C 112	8.4	28.0	10	1	ABK96063	Human LIPE gene po
C 113	8.4	28.0	10	1	AAI25204	Human homeo box D3
C 114	8.4	28.0	10	1	ABV64823	Human haemopexin S
C 115	8.4	28.0	10	1	ABK54423	Human ISL1 gene AS
C 116	8.4	28.0	10	1	ABK11491	Oligonucleotide pr
117	8.4	28.0	10	1	ABK72629	Leukotriene B4 rec
C 118	8.4	28.0	10	1	ACA94480	DNA tag from human
C 119	8.4	28.0	10	1	ABT14411	Nucleic acid PCR a
C 120	8.4	28.0	10	1	ABT14323	Triple helix third
C 121	8.4	28.0	11	1	AAK14955	Human skin stress/
C 122	8.4	28.0	11	1	ABO86554	Human skin stress/
C 123	8.4	28.0	11	1	ABO86306	Human skin stress/
C 124	8.4	28.0	11	1	ABO87206	Human skin stress/
C 125	8.4	28.0	11	1	ABV64744	Human skin EST 253
C 126	8.4	28.0	11	1	ABV67763	Human skin EST 554
C 127	8.4	28.0	11	1	ABV69450	Human skin EST 723
C 128	8.4	28.0	11	1	ABV69082	Human skin EST 686
C 129	8.4	28.0	11	1	ABV66542	Human skin EST 413
C 130	8.4	28.0	11	1	ABV66542	Human skin EST 432
C 131	8.4	28.0	11	1	ABV66760	Human skin EST 454
C 132	8.4	28.0	11	1	ABV68413	Human skin EST 619
C 133	8.4	28.0	11	1	ABV69080	Human skin EST 686
C 134	8.4	28.0	11	1	ABV68371	Human skin EST 615
C 135	8.4	28.0	11	1	ABV68621	Human skin EST 640
C 136	8.4	28.0	11	1	ABV63846	Human skin EST 163
C 137	8.4	28.0	11	1	ABV65219	Human skin EST 300
C 138	8.4	28.0	11	1	ABV66909	Human skin EST 469
C 139	8.4	28.0	11	1	ABV71267	Human skin EST 905
C 140	8.4	28.0	11	1	ABV67181	Human skin EST 496
C 141	8.4	28.0	11	1	ABV66102	Human skin EST 388
C 142	8.4	28.0	11	1	AAI21210	Transmissible gast
C 143	8.4	28.0	11	1	ABT16435	Human neurokinin 1

## ALIGNMENTS

RESULT 1  
ID AAQ24060 standard; RNA, 17 BP.

AC AAQ24060;

DT 08-JUN-1992 (first entry)

DE Artificial HIV-1 TAR sequence containing U-rich bubble.

KW human immunodeficiency virus; tat protein; AIDS; hairpin loop;  
trans-activation responsive region; ss.

OS Synthetic.

Key Location/Qualifiers  
misc\_structure 5..12  
/\*tag= a  
/note= "U-rich bubble. Base pairs to nucleotides 6-10 of  
AAQ24061"

XX WO9202228-A.

XX PD 20-FEB-1992.

XX 02-AUG-1990; 90GB-00016973.

XX 02-AUG-1990; 90GB-00016973.

(MED1-) MED RES COUNCIL.

PI Karn J, Gait MJ, Heaphy S, Dingwall C;  
XX WPI, 1992-079785/10.  
DR  
XX  
XX New HIV growth inhibiting oligo:nucleotide(s) - comprising rna binding  
sequences capable of binding to tat protein within cells, and in assays  
PT to identify opds. with tat binding.  
PI  
XX  
XX Disclosure; Fig 18c; 89pp; English.  
PS  
XX  
CC The HIV-1 TAR stem-loop sequence (see AAQ21425) was compared to that from  
CC HIV-2 (see AAQ21426). The only regions common to the two TAR structures  
CC are in the loop region and the U-rich bubble in the upper stem. This 17-  
CC mer was synthesized and can hybridise to a 14-mer (see AAQ24061) to mimic  
CC the known HIV-1 tat recognition sequence but without the apical loop. In  
CC an assay, the 17-mer plus 14-mer structure competed satisfactorily with  
CC full-length (59-mer) TAR for binding to tat. See AAQ21427-Q21435 for TAR  
CC mutants  
XX  
SQ Sequence 17 BP; 5 A; 4 C; 5 G; 0 T; 3 U; 0 Other;

Query Match 46.0%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 76.5%; Pred. No. 9;  
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCGAGCTTCAGCAGC 1506  
DB 1 AGCCGAGCTTCAGCAGC 17

RESULT 2  
ID AAZ59070 standard; RNA, 17 BP.  
AC AAZ59070;  
XX  
XX  
XX 15-SEP-2003 (revised)  
DT  
DT 11-APR-2000 (first entry)

DE HIV-1 TAR oligonucleotide target sequence #1.

XX Antiviral; antibacterial; antifungal; anticancer; detection; TAR; RRE;  
KW fluorescence resonance energy transfer; tat; HIV-1; Rev response element;  
KW autoimmune disease; trans-activation regulatory region; ss.

OS Human immunodeficiency virus 1.

PN WO964625-A2.

PD 16-DEC-1999.

XX 04-JUN-1999; 99WO-GB001761.

XX 05-JUN-1998; 98GB-00012196.

PR 02-MAR-1999; 99GB-00004790.

XX (RIBO-) RIBOTARGETS LTD.

XX Karn J, Prescott CD;

XX WPI, 2000-097545/08.

XX Identifying compounds that bind to target RNA, potentially useful for  
XX treating infections, tumors and autoimmune diseases.

XX Example; Page 31; 82pp; English.

CC The invention relates to a method of determining if a compound binds to a  
CC target RNA by treating a test compound with a reporter (R) labelled with a  
CC a donor or acceptor group and labelled target RNA, labelled with the  
CC complementary donor or acceptor group, and measuring the fluorescence  
CC from fluorescent groups associated with a compound:target RNA complex in  
CC presence of the test compound and comparing the result with a standard.

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Run on: April 15, 2004, 16:35:35 ; Search time 0.001 Seconds

(without alignments)  
98.460 Million cell updates/sec

Title: us-09-954-556-3

Perfect score: 30

Sequence: 1 cagcaccagaagccagactcagcagcca 30

Scoring table: IDENTITY NUC

Gapop 10.0 ; Gapext 0.5

Searched: 143 segs, 1641 residues

Total number of hits satisfying chosen parameters: 286

Minimum DB seq length: 8

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 143 summaries

Database : rng.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	13.8	46.0	17	AAQ24060	Artificial HIV-1 T
2	13.8	46.0	17	AAZ59070	HIV-1 TAR oligonuc
3	13.8	46.0	17	ABK26439	Waxy starch produc
4	13.8	46.0	17	ABK26440	Waxy starch produc
5	13.8	46.0	18	AAZ59072	HIV-1 TAR oligonuc
6	13.8	46.0	18	AAZ59072	HIV-1 TAR oligonuc
7	13.8	46.0	18	AAZ59072	HIV-1 TAR oligonuc
8	13.8	46.0	18	AAZ59072	HIV-1 TAR oligonuc
9	12.4	41.3	15	AAZ59072	HIV-1 TAR oligonuc
10	12.4	41.3	15	AAZ59072	HIV-1 TAR oligonuc
11	12.4	41.3	15	AAZ59072	HIV-1 TAR oligonuc
12	12.4	41.3	15	AAZ59072	HIV-1 TAR oligonuc
13	12.4	41.3	15	AAZ59072	HIV-1 TAR oligonuc
14	12.4	41.3	15	AAZ59072	HIV-1 TAR oligonuc
15	12.4	41.3	15	AAZ59072	HIV-1 TAR oligonuc
16	11.8	39.3	15	AAZ59072	HIV-1 TAR oligonuc
17	11.8	39.3	15	AAZ59072	HIV-1 TAR oligonuc
18	11.4	38.0	15	AAZ59072	HIV-1 TAR oligonuc
19	11.4	38.0	15	AAZ59072	HIV-1 TAR oligonuc
20	10.8	36.0	14	AAZ59072	HIV-1 TAR oligonuc
21	10.8	36.0	14	AAZ59072	HIV-1 TAR oligonuc
22	10.8	36.0	14	AAZ59072	HIV-1 TAR oligonuc
23	10.4	34.7	13	AAZ59072	HIV-1 TAR oligonuc
24	10.4	34.7	13	AAZ59072	HIV-1 TAR oligonuc
25	10.4	34.7	13	AAZ59072	HIV-1 TAR oligonuc
26	10.4	34.7	13	AAZ59072	HIV-1 TAR oligonuc
27	10.4	34.7	13	AAZ59072	HIV-1 TAR oligonuc
28	10.4	34.7	13	AAZ59072	HIV-1 TAR oligonuc
29	10.4	34.7	13	AAZ59072	HIV-1 TAR oligonuc
30	10.4	34.7	13	AAZ59072	HIV-1 TAR oligonuc
31	10.4	34.7	13	AAZ59072	HIV-1 TAR oligonuc
32	10.4	34.7	13	AAZ59072	HIV-1 TAR oligonuc
33	10.4	34.7	13	AAZ59072	HIV-1 TAR oligonuc

C 34	9.8	32.7	13	1	ABH65692	Oligonucleotide SE
C 35	9.8	32.7	13	1	ABH65694	Oligonucleotide SE
C 36	9.8	32.7	13	1	ABH65693	Oligonucleotide SE
C 37	9.8	32.7	13	1	ABH65695	Oligonucleotide SE
C 38	9.8	32.7	13	1	ABH65695	Oligonucleotide SE
C 39	9.4	31.3	11	1	ABV70346	DNA-templated synt
C 40	9.4	31.3	11	1	ABV69357	Human skin EST 813
C 41	9.4	31.3	11	1	ABV62925	Human skin EST 714
C 42	9.4	31.3	11	1	ABV68643	Human skin EST 711
C 43	9.4	31.3	11	1	ABV69164	Human skin EST 642
C 44	9.4	31.3	12	1	AAZ41704	Human skin EST 695
C 45	9.4	31.3	12	1	AAZ41704	Organic material d
C 46	9.4	31.3	12	1	AAZ41704	Organic material d
C 47	9.4	31.3	12	1	AAZ41704	Organic material d
C 48	9.4	31.3	12	1	AAZ41704	Organic material d
C 49	9.4	31.3	12	1	AAZ41704	Organic material d
C 50	9.4	31.3	12	1	AAZ41704	Organic material d
C 51	9.4	31.3	12	1	AAZ41704	Organic material d
C 52	9.4	31.3	12	1	AAZ41704	Organic material d
C 53	9.4	31.3	12	1	AAZ41704	Organic material d
C 54	9.4	31.3	12	1	AAZ41704	Organic material d
C 55	9.4	31.3	12	1	AAZ41704	Organic material d
C 56	9.4	31.3	12	1	AAZ41704	Organic material d
C 57	9.4	31.3	12	1	AAZ41704	Organic material d
C 58	9.4	31.3	12	1	AAZ41704	Organic material d
C 59	9.4	31.3	12	1	AAZ41704	Organic material d
C 60	9.4	31.3	12	1	AAZ41704	Organic material d
C 61	9.4	31.3	12	1	AAZ41704	Organic material d
C 62	9.4	31.3	12	1	AAZ41704	Organic material d
C 63	9.4	31.3	12	1	AAZ41704	Organic material d
C 64	9.4	31.3	12	1	AAZ41704	Organic material d
C 65	9.4	31.3	12	1	AAZ41704	Organic material d
C 66	9.4	31.3	12	1	AAZ41704	Organic material d
C 67	9.4	31.3	12	1	AAZ41704	Organic material d
C 68	9.4	31.3	12	1	AAZ41704	Organic material d
C 69	9.4	31.3	12	1	AAZ41704	Organic material d
C 70	9.4	31.3	12	1	AAZ41704	Organic material d
C 71	9.4	31.3	12	1	AAZ41704	Organic material d
C 72	9.4	31.3	12	1	AAZ41704	Organic material d
C 73	9.4	31.3	12	1	AAZ41704	Organic material d
C 74	9.4	31.3	12	1	AAZ41704	Organic material d
C 75	9.4	31.3	12	1	AAZ41704	Organic material d
C 76	9.4	31.3	12	1	AAZ41704	Organic material d
C 77	9.4	31.3	12	1	AAZ41704	Organic material d
C 78	9.4	31.3	12	1	AAZ41704	Organic material d
C 79	9.4	31.3	12	1	AAZ41704	Organic material d
C 80	9.4	31.3	12	1	AAZ41704	Organic material d
C 81	9.4	31.3	12	1	AAZ41704	Organic material d
C 82	9.4	31.3	12	1	AAZ41704	Organic material d
C 83	9.4	31.3	12	1	AAZ41704	Organic material d
C 84	9.4	31.3	12	1	AAZ41704	Organic material d
C 85	9.4	31.3	12	1	AAZ41704	Organic material d
C 86	9.4	31.3	12	1	AAZ41704	Organic material d
C 87	9.4	31.3	12	1	AAZ41704	Organic material d
C 88	9.4	31.3	12	1	AAZ41704	Organic material d
C 89	9.4	31.3	12	1	AAZ41704	Organic material d
C 90	9.4	31.3	12	1	AAZ41704	Organic material d
C 91	9.4	31.3	12	1	AAZ41704	Organic material d
C 92	9.4	31.3	12	1	AAZ41704	Organic material d
C 93	9.4	31.3	12	1	AAZ41704	Organic material d
C 94	9.4	31.3	12	1	AAZ41704	Organic material d
C 95	9.4	31.3	12	1	AAZ41704	Organic material d
C 96	9.4	31.3	12	1	AAZ41704	Organic material d
C 97	9.4	31.3	12	1	AAZ41704	Organic material d
C 98	9.4	31.3	12	1	AAZ41704	Organic material d
C 99	9.4	31.3	12	1	AAZ41704	Organic material d
C 100	9.4	31.3	12	1	AAZ41704	Organic material d
C 101	9.4	31.3	12	1	AAZ41704	Organic material d
C 102	9.4	31.3	12	1	AAZ41704	Organic material d
C 103	9.4	31.3	12	1	AAZ41704	Organic material d
C 104	9.4	31.3	12	1	AAZ41704	Organic material d
C 105	9.4	31.3	12	1	AAZ41704	Organic material d
C 106	9.4	31.3	12	1	AAZ41704	Organic material d

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Run on: April 15, 2004, 16:33:22 ; Search time 0.001 Seconds

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79,200 Million cell updates/sec

Title: us-09-954-556-3

Perfect score: 30

Sequence: 1 cagcaccagaagccagacttcagcagcca 30

Scoring table:

IDENTITY\_NUC  
Gapop 10.0 , Gapext 0.5

Searched: 102 segs, 1320 residues

Total number of hits satisfying chosen parameters: 204

Minimum DB seq length: 8  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 102 summaries

Database : rge.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	% Match	Query Length	DB ID	Description
1	14.4	48.0	17	1	AR048076
2	14.4	48.0	17	1	AR048079
3	14.4	48.0	17	1	AR108979
4	14.4	48.0	17	1	AR108982
5	14.4	48.0	18	1	AR048082
6	14.4	48.0	18	1	AR108985
7	13.8	46.0	17	1	A20708
8	13.8	46.0	17	1	A21027
9	13.8	46.0	17	1	BD249433
10	13.8	46.0	17	1	AR340497
11	13.8	46.0	17	1	AX008727
12	13.8	46.0	17	1	AX325661
13	13.8	46.0	17	1	AX325662
14	13.8	46.0	18	1	A21030
15	13.8	46.0	18	1	AR048072
16	13.8	46.0	18	1	AR108975
17	13.8	46.0	18	1	BD249435
18	13.8	46.0	18	1	AR340493
19	13.8	46.0	18	1	AX008729
20	13.8	46.0	18	1	AX084246
21	13.8	46.0	18	1	AX084249
22	12.8	42.7	17	1	AR048077
23	12.8	42.7	17	1	AR048078
24	12.8	42.7	17	1	AR048080
25	12.8	42.7	17	1	AR048081
26	12.8	42.7	17	1	AR108980
27	12.8	42.7	17	1	AR108981
28	12.8	42.7	17	1	AR108983
29	12.8	42.7	17	1	AR108984
30	12.8	40.0	14	1	BD209410
31	12.8	40.0	15	1	A12791
32	11.4	38.0	15	1	ACCESSTION:127893
33	11.4	36.7	14	1	ACCESSTION:A89566

34	11	36.7	14	1	A89567	ACCESSTION:A89567
35	11	36.7	14	1	BD067079	ACCESSTION:BD067079
36	11	36.7	14	1	BD067080	ACCESSTION:BD067080
37	10.8	36.0	14	1	BD209394	ACCESSTION:BD209394
38	10	33.3	10	1	BD239909	ACCESSTION:BD239909
39	10	33.3	12	1	A71513	ACCESSTION:A71513
40	10	33.3	13	1	AX003113	ACCESSTION:AX003113
41	9.4	31.3	11	1	AX623670	ACCESSTION:AX623670
42	9.4	31.3	11	1	AX629388	ACCESSTION:AX629388
43	9.4	31.3	11	1	AX629909	ACCESSTION:AX629909
44	9.4	31.3	11	1	AX630102	ACCESSTION:AX630102
45	9.4	31.3	11	1	AX631091	ACCESSTION:AX631091
46	9.4	31.3	12	1	AR167701	ACCESSTION:AR167701
47	9.4	31.3	12	1	E29585	ACCESSTION:E29585
48	9.4	31.3	12	1	E38691	ACCESSTION:E38691
49	9.4	31.3	12	1	E64117	ACCESSTION:E64117
50	9.4	31.3	12	1	BD061483	ACCESSTION:BD061483
51	9.4	31.3	12	1	BD101930	ACCESSTION:BD101930
52	9	30.0	10	1	BD240229	ACCESSTION:BD240229
53	9	30.0	10	1	BD248497	ACCESSTION:BD248497
54	9	30.0	10	1	AR303300	ACCESSTION:AR303300
55	9	30.0	10	1	AX510716	ACCESSTION:AX510716
56	9	30.0	11	1	AX471386	ACCESSTION:AX471386
57	9	30.0	11	1	AX625231	ACCESSTION:AX625231
58	9	30.0	11	1	AX625231	ACCESSTION:AX625231
59	9	30.0	11	1	AX626985	ACCESSTION:AX626985
60	9	30.0	11	1	AX628452	ACCESSTION:AX628452
61	9	30.0	11	1	AX630058	ACCESSTION:AX630058
62	8.4	28.0	10	1	AX632652	ACCESSTION:AX632652
63	8.4	28.0	10	1	AR070986	ACCESSTION:AR070986
64	8.4	28.0	10	1	AR161933	ACCESSTION:AR161933
65	8.4	28.0	10	1	BD240233	ACCESSTION:BD240233
66	8.4	28.0	10	1	E54684	ACCESSTION:E54684
67	8.4	28.0	10	1	AR181983	ACCESSTION:AR181983
68	8.4	28.0	10	1	AR303303	ACCESSTION:AR303303
69	8.4	28.0	10	1	AR303338	ACCESSTION:AR303338
70	8.4	28.0	10	1	AR304485	ACCESSTION:AR304485
71	8.4	28.0	10	1	AR382219	ACCESSTION:AR382219
72	8.4	28.0	10	1	AX152226	ACCESSTION:AX152226
73	8.4	28.0	10	1	AX152377	ACCESSTION:AX152377
74	8.4	28.0	10	1	AX153162	ACCESSTION:AX153162
75	8.4	28.0	10	1	AX362608	ACCESSTION:AX362608
76	8.4	28.0	10	1	AX377325	ACCESSTION:AX377325
77	8.4	28.0	10	1	BD065117	ACCESSTION:BD065117
78	8.4	28.0	11	1	BD167088	ACCESSTION:BD167088
79	8.4	28.0	11	1	A02163	ACCESSTION:A02163
80	8.4	28.0	11	1	A04685	ACCESSTION:A04685
81	8.4	28.0	11	1	AR030153	ACCESSTION:AR030153
82	8.4	28.0	11	1	AR353840	ACCESSTION:AR353840
83	8.4	28.0	11	1	AX470484	ACCESSTION:AX470484
84	8.4	28.0	11	1	AX470732	ACCESSTION:AX470732
85	8.4	28.0	11	1	AX471384	ACCESSTION:AX471384
86	8.4	28.0	11	1	AX616455	ACCESSTION:AX616455
87	8.4	28.0	11	1	AX624591	ACCESSTION:AX624591
88	8.4	28.0	11	1	AX625489	ACCESSTION:AX625489
89	8.4	28.0	11	1	AX625964	ACCESSTION:AX625964
90	8.4	28.0	11	1	AX626847	ACCESSTION:AX626847
91	8.4	28.0	11	1	AX627093	ACCESSTION:AX627093
92	8.4	28.0	11	1	AX627287	ACCESSTION:AX627287
93	8.4	28.0	11	1	AX627505	ACCESSTION:AX627505
94	8.4	28.0	11	1	AX627654	ACCESSTION:AX627654
95	8.4	28.0	11	1	AX627926	ACCESSTION:AX627926
96	8.4	28.0	11	1	AX628508	ACCESSTION:AX628508
97	8.4	28.0	11	1	AX629116	ACCESSTION:AX629116
98	8.4	28.0	11	1	AX629158	ACCESSTION:AX629158
99	8.4	28.0	11	1	AX629366	ACCESSTION:AX629366
100	8.4	28.0	11	1	AX629825	ACCESSTION:AX629825
101	8.4	28.0	11	1	AX629827	ACCESSTION:AX629827
102	8.4	28.0	11	1	AX630195	ACCESSTION:AX630195
					AX632012	ACCESSTION:AX632012

## ALIGNMENTS